

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A lubricating oil composition comprising:

(A) a base oil comprising a hydrocarbon compound having a cohesive energy density at 40°C of 0.180 GPa or more, said base oil having a kinematic viscosity at 40°C of 5 to 150 mm²/s, and

(B) a phosphoric ester containing a hydrocarbon group having a thioether bond, wherein said base oil (A) comprises at least one compound selected from the group consisting of (i) dimerized norbornanes, (ii) hydrogenated dimers, trimers and tetramers of norbornanes and/or norbornenes.

2. (Previously Presented) A lubricating oil composition according to claim 1, wherein said cohesive energy density (CED) at 40°C is calculated from the following formula (1):

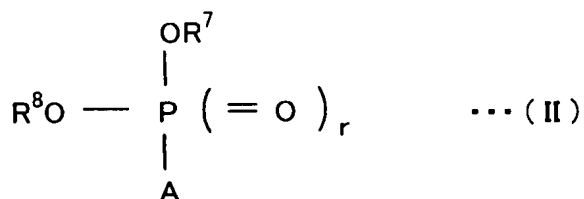
$$\text{CED (GPa)} = 0.0204(d/\text{MW}) \cdot T \cdot \ln(2.51\eta \cdot \text{MW}) \quad (1)$$

wherein d is a density (g/cm³) at 40°C; MW is a molecular weight (g/mol); T is an absolute temperature (K); and η is a kinematic viscosity (mm²/s) at 40°C.

3. (Currently Amended) A lubricating oil composition according to claim 1 or 2, wherein said base oil (A) comprises at least one compound selected from the group consisting of ~~(i) dimerized norbornanes, (ii) hydrogenated dimers, trimers and tetramers of norbornanes and/or norbornenes, (iii) alkane derivatives having 2 or more cyclohexane rings, and (iv) alkane derivatives having one or more decalin rings and one or more cyclohexane rings.~~

4. (Previously Presented) A lubricating oil composition according to any one of claims 1 or 2, wherein said phosphoric ester (B) containing a hydrocarbon group having a

thioether bond is an acid phosphoric ester or phosphorous ester represented by the general formula (II):



wherein r is 0 or 1; when r is 0, A is a hydroxyl group, and when r is 1, A is a hydrogen atom or a hydroxyl group; and R⁷ and R⁸ are respectively a hydrogen atom or a hydrocarbon group having 1 to 18 carbon atoms which may have one or more thioether bonds, and at least one of R⁷ and R⁸ is the hydrocarbon group having a thioether bond.

5. (Previously Presented) A lubricating oil composition according to claim 11, wherein said composition comprises at least one compound selected from the group consisting of phosphoric esters containing an alkyl group having 3 to 12 carbon atoms or an aryl group having 6 to 12 carbon atoms, and amine salts thereof.

6. (Previously Presented) A lubricating oil composition for continuously variable transmission according to claim 11, wherein said composition comprises overbased calcium sulfonate having a base value of 50 to 700 mg KOH/g.

7. (Previously Presented) A lubricating oil composition according to claim 1 or 2, further comprising (D) a sulfur containing anti-wear agent.

8. (Previously Presented) A lubricating oil composition according to claim 1 or 2, wherein said lubricating oil composition is a lubricating oil composition for a metallic belt type continuously variable transmission.

9. (Previously Presented) A lubricating oil composition according to claim 1 or 2, wherein said lubricating oil composition is a lubricating oil composition for a chain type continuously variable transmission.

10. (Previously Presented) A lubricating oil composition according to claim 1 or 2, wherein said lubricating oil composition is a lubricating oil composition for a traction drive type continuously variable transmission.

11. (Previously Presented) A lubricating oil composition according to claim 1 or 2, wherein said composition further comprises (C) at least one compound selected from the group consisting of phosphoric esters and amine salts thereof, and an overbased calcium sulfonate.

12. (Previously Presented) A lubricating oil composition according to claim 1 or 2, wherein said lubricating oil composition is a lubricating oil composition for a continuously variable transmission.

13. (New) A lubricating oil composition according to claim 1, wherein said base oil (A) comprises at least one compound selected from the group consisting of hydrogenated dimers, trimers and tetramers of norbornanes.

14. (New) A lubricating oil composition according to claim 1, wherein said base oil (A) comprises at least one compound selected from the group consisting of hydrogenated dimers, trimers and tetramers of norbornenes.